

CAS/STN FILE 'REGISTRY' ENTERED AT 10:23:17 ON 07 JUN 2005

L1 1 S QUINOLINE/CN
 L2 1 S 2-BENZAZINE/CN
 L3 1 S ISOQUINOLINE/CN
 L4 17744 S 591.50.52/RID AND (BENZENE OR PHENYL)
 L5 1 S PHENYLISOQUINOLINE/CN
 L6 22305 S 591.50.52/RID AND 46.150.18/RID
 L7 233038 S (PHEN#### OR BENZ#####) (4A) (ISOQUINOLIN?
 OR QUINOLIN? OR BENZAZIN? OR BENZOPYRIDI? OR AZANAPHTHALEN?)
 L8 9888 S L6 AND L7
 L9 4610 S L8 AND (3 OR 9)/NR
 L10 560 S L9 AND F/ELS
 L11 502 S L9 AND (FLUOROPHEN? OR FLUOROBENZ? OR TRIFLUOR? OR FLUOROMETH?)
 L12 0 S (L10 OR L11) AND (IR/ELS OR IRIIDIUM)
 L13 26761 S (L4 OR L5 OR L6 OR L7)
 AND (FLUOROPHEN? OR FLUOROBENZ? OR TRIFLUOR? OR FLUOROMETH?)
 L14 41 S L13 AND (IR OR IRIIDIUM)
 L15 18 S L14 AND TRIS
 L16 39 S L14 AND KAPPA
 L17 18 S L15 AND TRIFLUOR?
 L18 18 S L15 AND TRI FLUOR?
 L19 18 S L15 AND FLUOROMETH?
 L20 36 S L14 AND FLUOROMETH?
 L21 40 S L14 AND TRI FLUOR?
 L22 40 S L14 AND TRIFLUOR?
 L23 36 S L20 AND (L21 OR L22)
 L24 18 S (L17 OR L18 OR L19)
 L25 36 S (L23 OR L24)
 L26 4638 S (L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10
 OR L11 OR L12 OR L13) AND (BIFLUOR? OR DIFLUOR? OR (DI OR BI OR BIS) (1A) FLUOR?)
 L27 4638 S (L6 OR L7) AND L26
 L28 43 S L27 AND IR/ELS
 L29 41 S L27 AND IRIIDIUM
 L30 43 S (L28 OR L29)
 L31 37 S L30 NOT L25
 D FIDE 1-37
 L32 245454 S (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR
 L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR
 L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR
 L26 OR L27 OR L28 OR L29 OR L30 OR L31) NOT (L30 OR L25)
 L33 245382 S L32 AND (L6 OR L7)
 L34 33856 S L33 AND F/ELS
 L35 128 S L34 AND IR/ELS
 L36 128 S L35 NOT 2005?/ED
 L37 121 S L35 NOT 2004?/ED
 L38 99 S L35 NOT 2003?/ED
 L39 104 S L35 NOT 2002?/ED
 L40 68 S L35 AND L36 AND L37 AND L38 AND L39
 L41 68 S L40 NOT (L30 OR L25)

FILE 'STNGUIDE' ENTERED AT 10:49:41 ON 07 JUN 2005

FILE 'REGISTRY' ENTERED AT 10:55:23 ON 07 JUN 2005

L42 100 S 435294?/RN
 L43 84 S L42 AND IR/ELS
 L44 42 S L43 AND TRIS
 L45 31 S L44 AND F/ELS
 L46 29 S L45 AND (L6 OR L7)

FILE 'HCAPLUS' ENTERED AT 10:56:39 ON 07 JUN 2005

L47 3 S L46

JP priority date of 11/30/2000

L47 ANSWER 3 OF 3 HCAPLUS COPYRIGHT ACS on STN

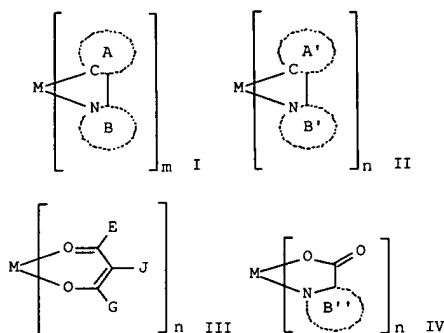
AN 2002:428917 DN 137:26190

TI Electroluminescence element and electroluminescent display device containing the same

IN Kamatani, Jun; Okada, Shinjiro; Tsuboyama, Akira; Takiguchi, Takao; Miura, Seishi; Noguchi, Koji; Moriyama, Takashi; Igawa, Satoshi; Furugori, Manabu

PA Canon Kabushiki Kaisha, Japan

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002044189	A1	20020606	WO 2001-JP10487	20011130
	AU 2002022566	A5	20020611	AU 2002-22566	20011130
	EP 1348711	A1	20031001	EP 2001-998553	20011130
	US 2003068526	A1	20030410	US 2002-73012	20020212
PRAI	JP 2000-364650	A	20001130		
	JP 2001-64205	A	20010308		
	JP 2001-128928	A	20010426		
	WO 2001-JP10487	W	20011130		
OS	MARPAT 137:26190				



AB The invention relates to a luminescent element characterized by having a layer contg. a metal coordination compd. which has a partial structure ML_m represented by the following general formula I (A, B = isoquinolyl group residue; M = metal) and which as a whole is preferably represented by the following formula ML_mL'_n (M = Ir, Pt, Rh, Pd; m = 1, 2, 3; n = 0, 1, 2; ML_m = compd. I; ML'_n = compd. II-IV; A', B', B'' = ring group residue; E, G = C1-20 alkyl; J = H, C1-20 alkyl). The luminescence element shows the high luminescent efficiency and the good stability.

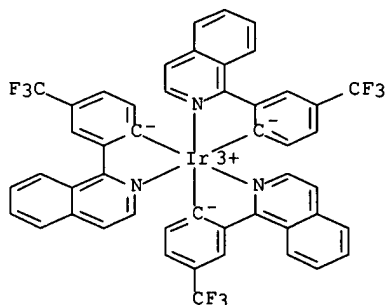
IT 435294-01-2P 435294-06-7P 435294-07-8P 435294-08-9P 435294-16-9P 435294-17-0P
 435294-18-1P 435294-19-2P 435294-20-5P 435294-21-6P 435294-22-7P 435294-23-8P
 435294-24-9P 435294-25-0P 435294-27-2P 435294-41-0P 435294-42-1P 435294-43-2P
 435294-44-3P 435294-47-6P 435294-48-7P 435294-49-8P 435294-51-2P 435294-54-5P
 435294-55-6P 435294-56-7P 435294-57-8P 435294-63-6P 435294-67-0P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(electroluminescence element and electroluminescent display device contg. same)

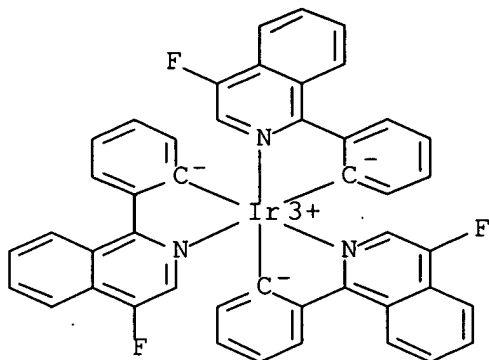
RN 435294-01-2 HCAPLUS

CN Iridium, tris[2-(1-isoquinolinyl-.kappa.N)-4-(trifluoromethyl)phenyl-.kappa.C]-



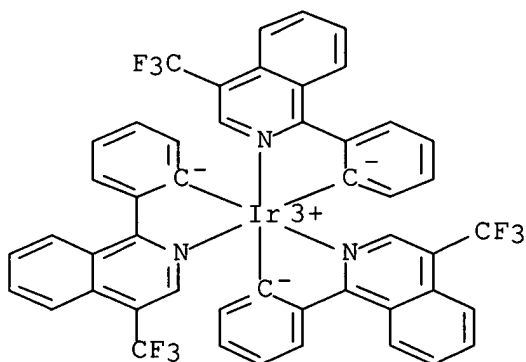
RN 435294-06-7 HCAPLUS

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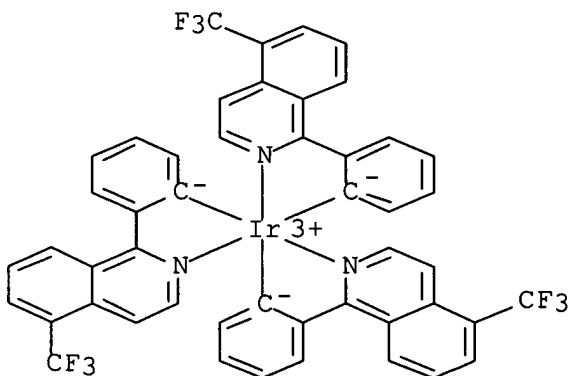
RN 435294-07-8 HCAPLUS

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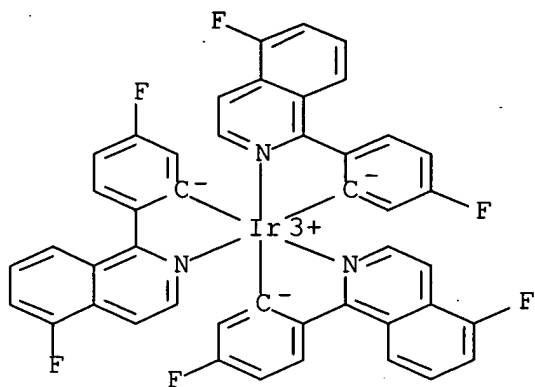
RN 435294-08-9 HCAPLUS

CN Iridium, tris[2-[5-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



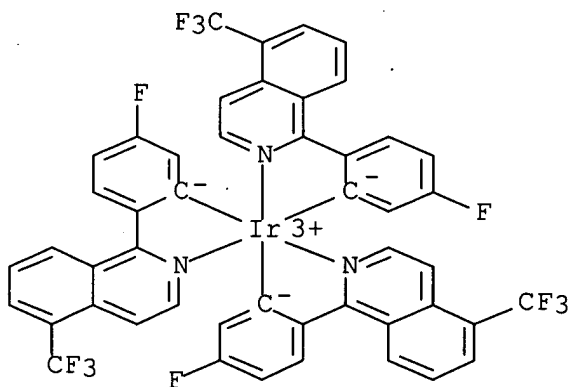
RN 435294-16-9 HCAPLUS

CN Iridium, tris[5-fluoro-2-(5-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



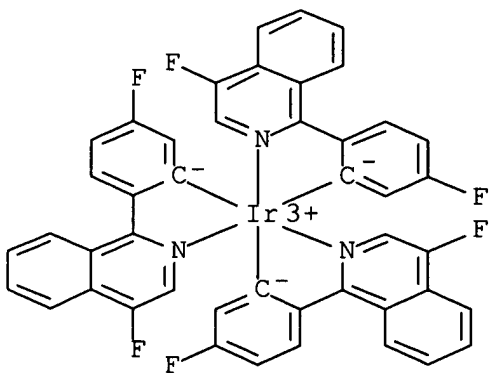
RN 435294-17-0 HCAPLUS

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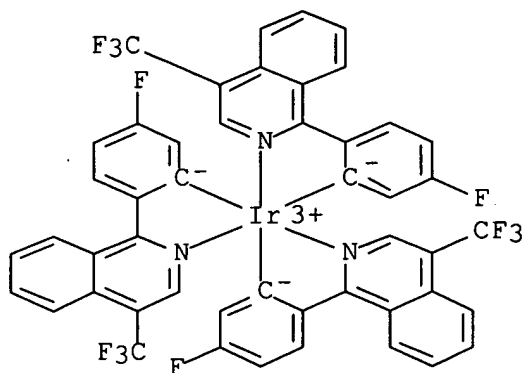
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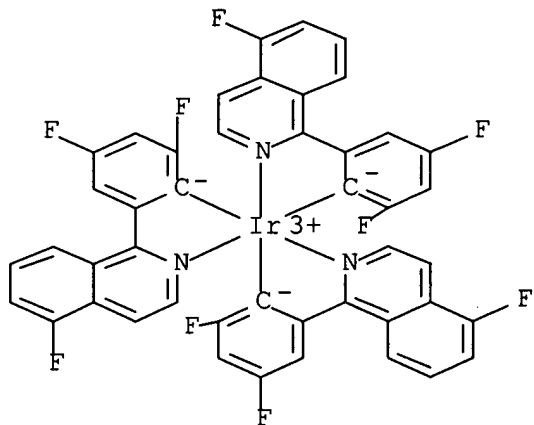
RN 435294-19-2 HCAPLUS

CN Iridium, tris[5-fluoro-2-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



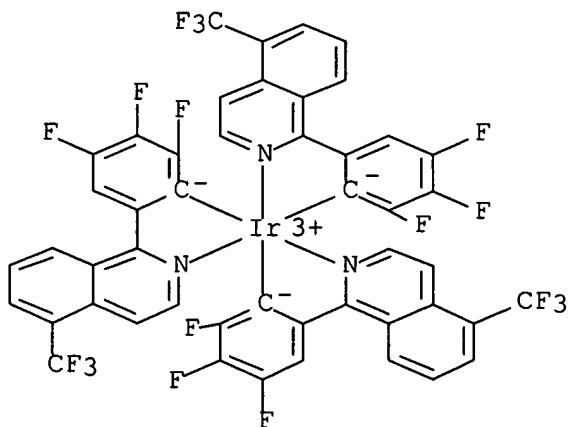
RN 435294-20-5 HCAPLUS

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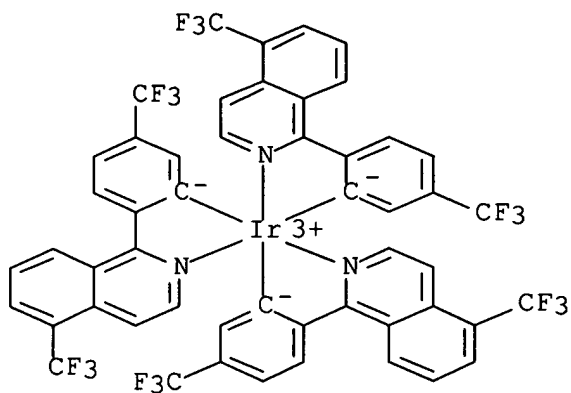
RN 435294-21-6 HCAPLUS

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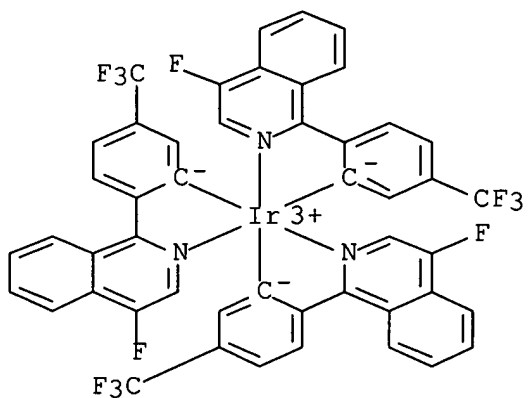
RN 435294-22-7 HCAPLUS

CN Iridium, tris[5-(trifluoromethyl)-2-[5-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



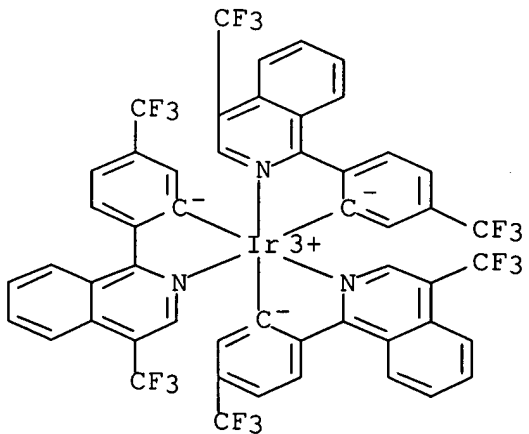
RN 435294-23-8 HCAPLUS

CN Iridium, tris[2-(4-fluoro-1-isoquinolinyl-.kappa.N)-5-(trifluoromethyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



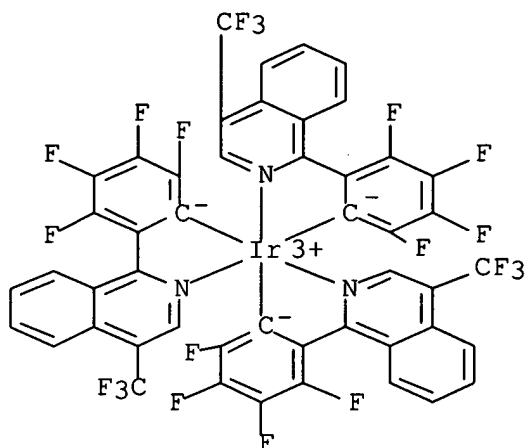
RN 435294-24-9 HCAPLUS

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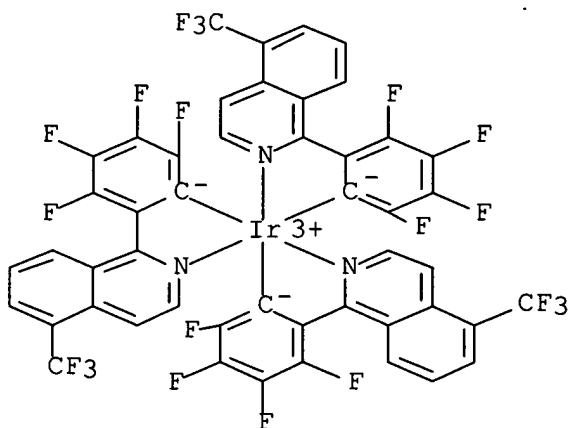
RN 435294-25-0 HCAPLUS

CN Iridium, tris[2,3,4,5-tetrafluoro-6-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]-



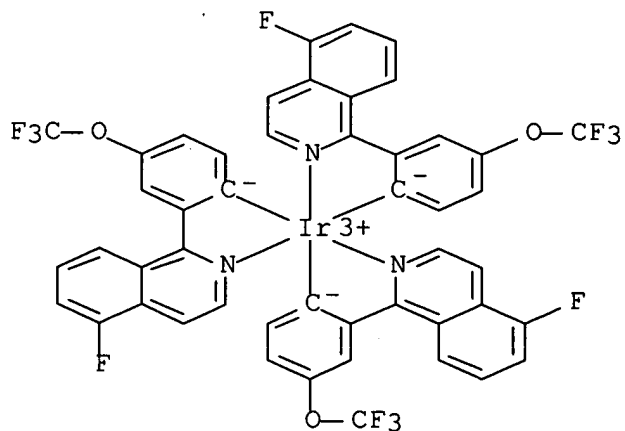
RN 435294-27-2 HCAPLUS

CN Iridium, tris[2,3,4,5-tetrafluoro-6-[5-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]-



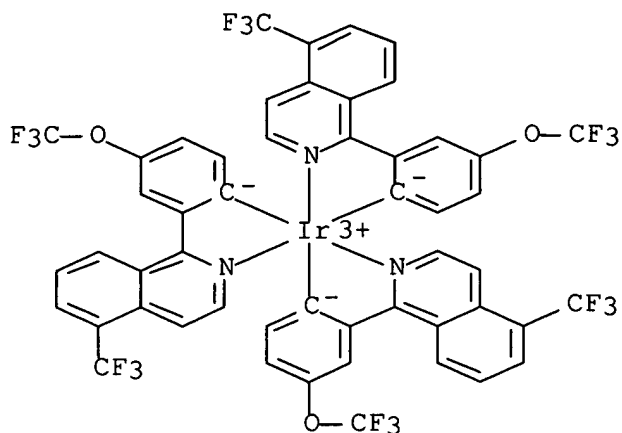
RN 435294-41-0 HCAPLUS

CN Iridium, tris[2-(5-fluoro-1-isoquinolinyl-.kappa.N)-4-(trifluoromethoxy)phenyl-.kappa.C]-



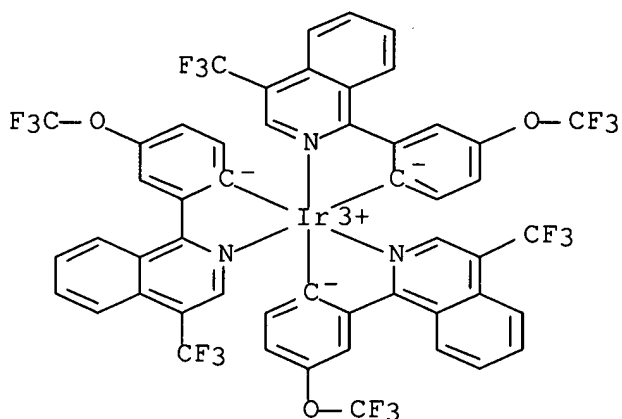
RN 435294-42-1 HCAPLUS

CN Iridium, tris[4-(trifluoromethoxy)-2-[5-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



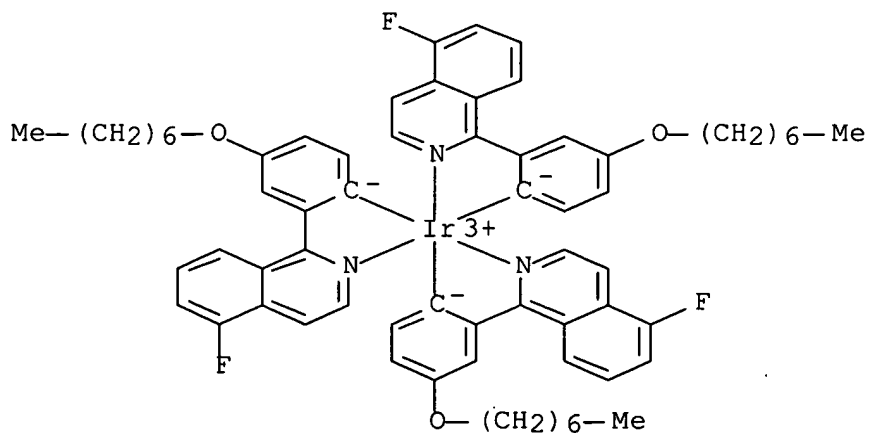
RN 435294-43-2 HCAPLUS

CN Iridium, tris[4-(trifluoromethoxy)-2-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



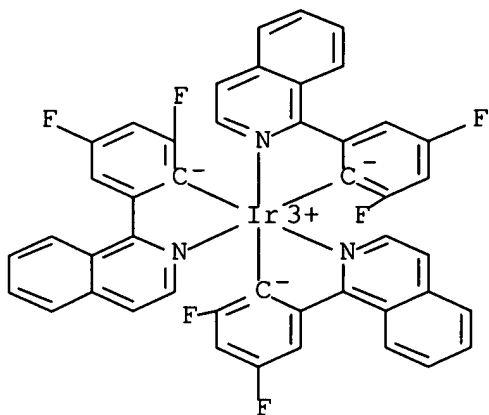
RN 435294-44-3 HCAPLUS

CN Iridium, tris[2-(5-fluoro-1-isoquinolinyl-.kappa.N)-4-(heptyloxy)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



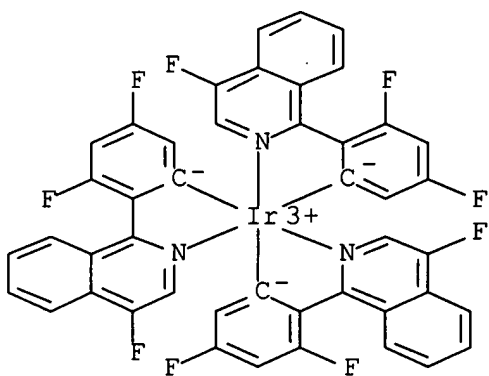
RN 435294-47-6 HCAPLUS

CN Iridium, tris[2,4-difluoro-6-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]-



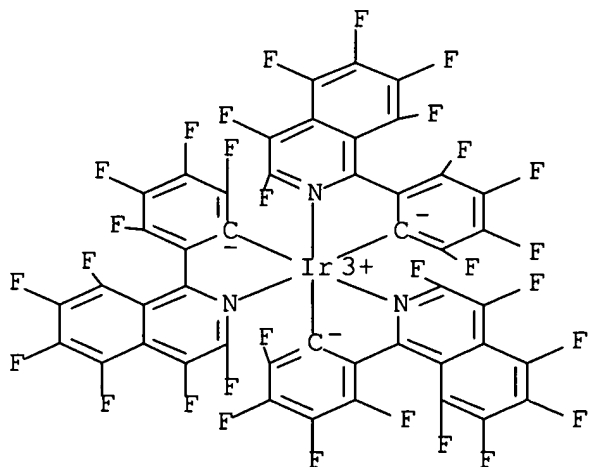
RN 435294-48-7 HCAPLUS

CN Iridium, tris[3,5-difluoro-2-(4-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



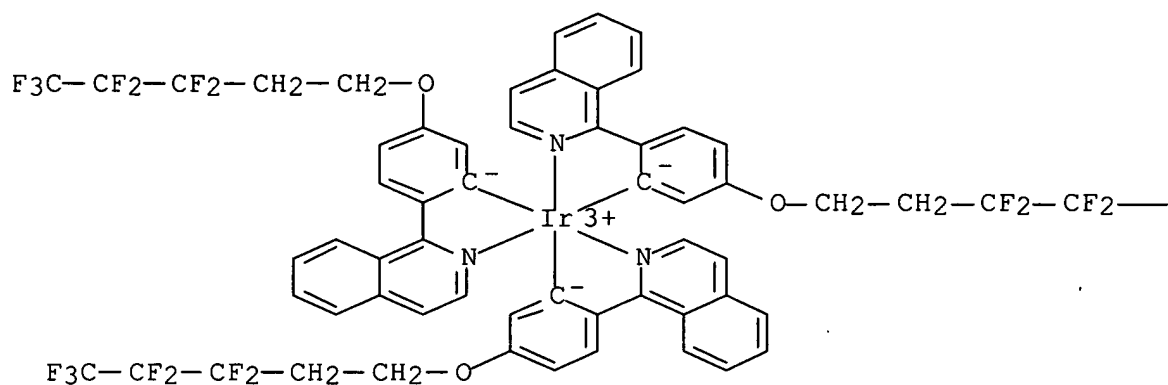
RN 435294-49-8 HCAPLUS

CN Iridium, tris[2,3,4,5-tetrafluoro-6-(3,4,5,6,7,8-hexafluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



RN 435294-51-2 HCAPLUS
 CN Iridium, tris[5-[(3,3,4,4,5,5,5-heptafluoropentyl)oxy]-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

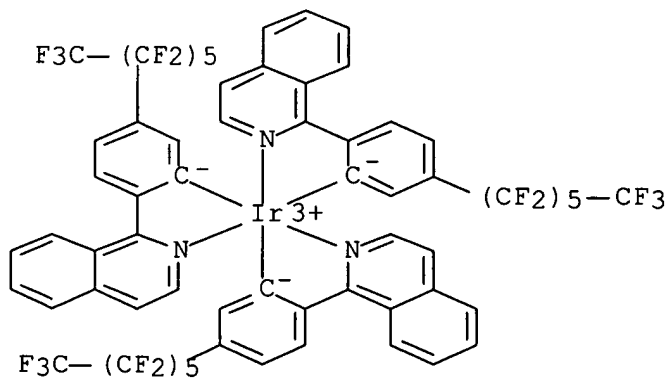
PAGE 1-A



PAGE 1-B

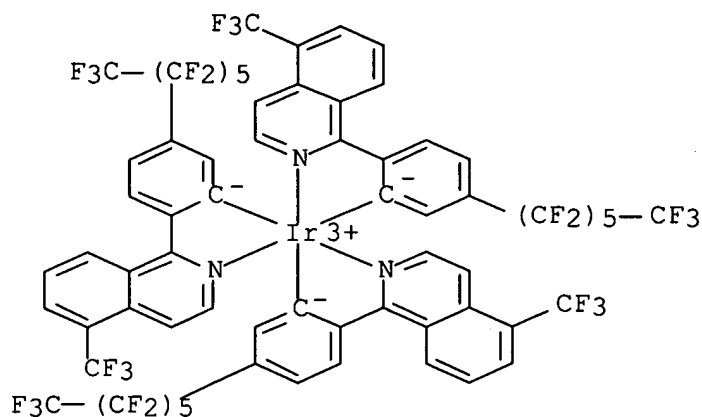
—CF₃

RN 435294-54-5 HCAPLUS
 CN Iridium, tris[2-(1-isoquinolinyl-.kappa.N)-5-(tridecafluorohexyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



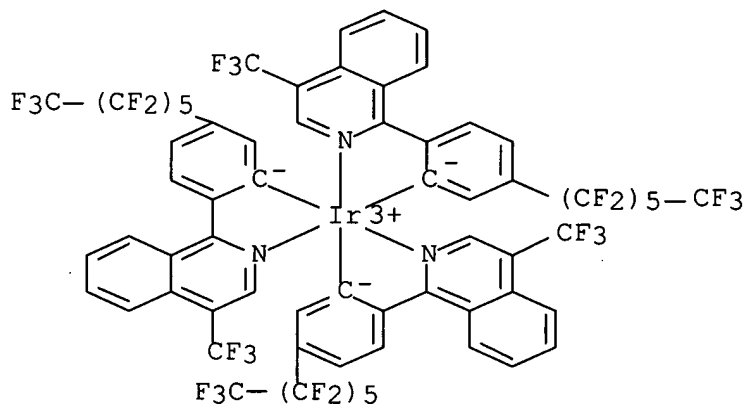
RN 435294-55-6 HCAPLUS

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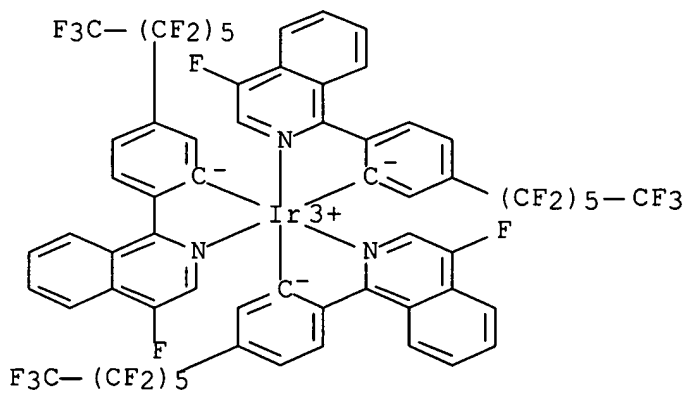
RN 435294-56-7 HCAPLUS

CN Iridium, tris[5-(tridecafluorohexyl)-2-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



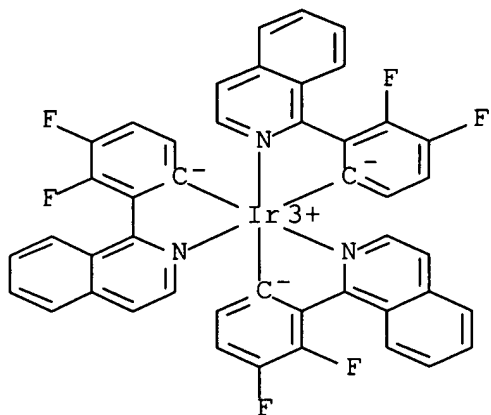
RN 435294-57-8 HCAPLUS

CN Iridium, tris[2-(4-fluoro-1-isoquinolinyl-.kappa.N)-5-(tridecafluorohexyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



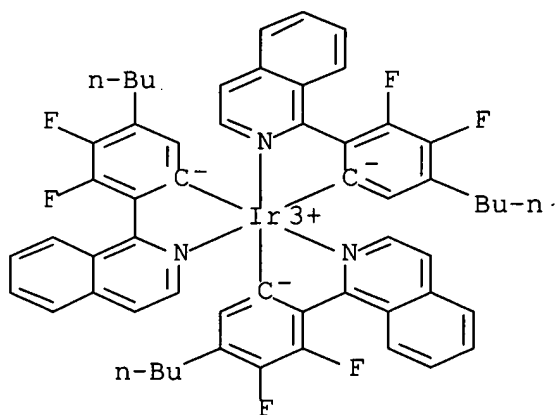
RN 435294-63-6 HCAPLUS

CN Iridium, tris[3,4-difluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]-



RN 435294-67-0 HCAPLUS

CN Iridium, tris[5-butyl-3,4-difluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



JP priority date of 11/30/2000

10/696,401

10/646,349

L22 ANSWER 34 OF 40 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:429288 HCAPLUS

DN 137:26192

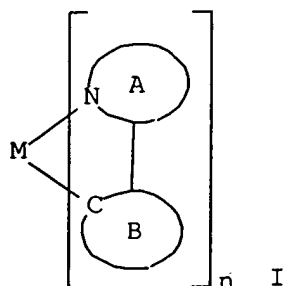
ED Entered STN: 07 Jun 2002

TI Electroluminescent element and electroluminescent display device having the same

IN Kamatani, Jun; Okada, Shinjiro; Tsuboyama, Akira; Takiguchi, Takao; Miura, Seishi; Noguchi, Koji; Moriyama, Takashi; Furugori, Manabu

PA Canon Kabushiki Kaisha, Japan

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002045466	A1	20020606	WO 2001-JP10477	20011130
	AU 2002022565	A5	20020611	AU 2002-22565	20011130
	EP 1349435	A1	20031001	EP 2001-999132	20011130
	US 2003059646	A1	20030327	US 2002-73011	20020212
PRAI	JP 2000-364650	A	20001130		
	JP 2001-64203	A	20010308		
	JP 2000-364350	A	20001130		
	WO 2001-JP10477	W	20011130		
OS	MARPAT 137:26192				



AB The invention relates to a luminescent element having a cathode, an anode, and one or a plurality of layers of org. thin films which is arranged between them, characterized in that at least one of the layers is a light emitting layer which comprises a luminescent mol. of a metal coordination compd. having a basic structure represented by the following general formula I (A, B = ring group residue; M = IR, Pt, Rh, Pd) and having a substituent on at least one of cyclic groups A and B as a guest in a host material at a concn. which is 8 wt. % or greater and is greater than a concn. at which a luminescent mol. of a compd. having a structure analogous to the above and free of the substituent exhibits the max. luminous efficiency. The luminescent element is less susceptible to extinction by concn. even when used at a high concn. in a host material and thus exhibits high efficiency.

TM 58961-52-27

JP priority date of 6/15/2001

L47 ANSWER 2 OF 3 HCAPLUS COPYRIGHT ACS on STN

AN 2002:978186 DN 138:63633

TI Organic electroluminescent device containing dispersion dopant in the emitting layer

IN Furugori, Manabu; Okada, Shinjiro; Tsuboyama, Akira; Takiguchi, Takao; Miura, Seishi; Moriyama, Takashi; Igawa, Satoshi; Kamatani, Jun; Iwawaki, Hironobu

PA Canon Kabushiki Kaisha, Japan

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002104080	A1	20021227	WO 2002-JP5891	20020613
	JP 2003068465	A2	20030307	JP 2002-143441	20020517
	JP 2003068466	A2	20030307	JP 2002-143442	20020517
	JP 2003068461	A2	20030307	JP 2002-143443	20020517
	EP 1399002	A1	20040317	EP 2002-738680	20020613
	US 2003141809	A1	20030731	US 2002-207843	20020731
	US 6838818	B2	20050104		
PRAI	JP 2001-181416	A	20010615		
	JP 2002-143441	A	20020517		
	JP 2002-143442	A	20020517		
	JP 2002-143443	A	20020517		
	WO 2002-JP5891	W	20020613		

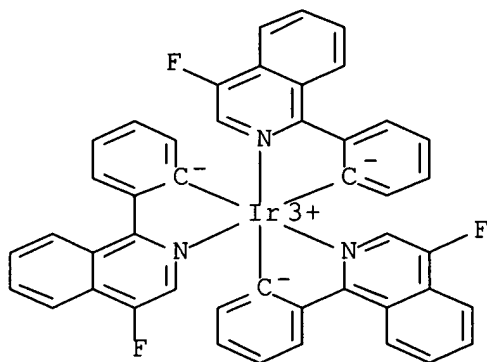
AB The invention refers to an org. electroluminescent device comprising an emitting material and a dopant for improving dispersion in the emitting layer, wherein the dopant can be a combination of an emitting compd. and a non-emitting compd., or can be a current promoting material. When the dopant contains an emitting compd., the emission wavelength of the dopant is similar to that of the main emitting material. The emitting material and the dopant are placed in the evapn. boat together for improved dispersion of the emitting material, improved emission efficiency and long life.

IT 435294-06-7

(org. electroluminescent device contg. dispersion dopant in emitting layer)

RN 435294-06-7 HCAPLUS

CN Iridium, tris[2-(4-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]-



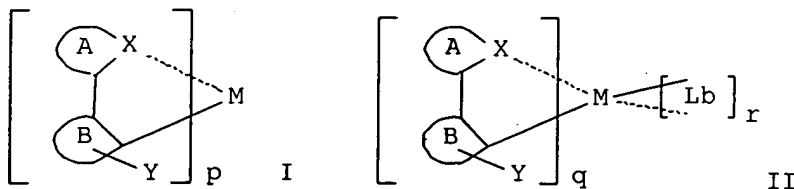
6/15/2001 JP priority date

10/696,401

10/646,349

L22 ANSWER 29 OF 40 HCAPLUS COPYRIGHT ACS on STN
AN 2003:155115 HCAPLUS
DN 138:212530
ED Entered STN: 28 Feb 2003
TI Luminescent organometallic compound and light emitting device
IN Fujii, Hiroyuki

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003040627	A1	20030227	US 2002-170396	20020614
	JP 2004059433	A2	20040226	JP 2002-172832	20020613
	CN 1397559	A	20030219	CN 2002-124374	20020617
PRAI	JP 2001-182507	A	20010615		
	JP 2002-165353	A	20020606		
OS	MARPAT 138:212530				



AB Luminescent organometallic compds. are described by the general formulas I and II (A and B represent ring structures, M = a metal atom; X = a hetero atom other than C or H; Y = .gtoreq.1 electron-attracting group connecting to ring structure B; Lb = a unidentate or multidentate ligand; and p, q and r = pos. integers). Light-emitting devices with emitting layers incorporating the compds. are also described.